

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 16, 1999	GROUP 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	5,395,760	03/07/1995	Smith et al.	435	240.1	05/10/1990
	AB1	5,464,938	11/07/1995	Smith et al.	530	350	08/18/1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	EP 0 585 939 A2	03/09/1994	Europe			Yes No
	AM1	WO 94/09137	04/28/1994	WIPO			Yes No
	AN1	WO 94/13808	06/23/1994	WIPO			Yes No
	AO1	WO 97/37020	10/09/1997	WIPO			Yes No
	AP1	WO 98/14565	04/09/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Adams, M.D. et al, "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> 252:1651-1656 (1991)
	AS	1	Adams, M.D. et al., "Sequence identification of 2,375 human brain genes," <i>Nature</i> 355:632-634 (1992)
	AT	1	Aggarwal, B.B. and K. Natarajan, "Tumor necrosis factors: Developments during the last decade," <i>Eur Cytokine Netw.</i> 7(2):93-124 (April-June 1996)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Altschul, S.F. et al, "Basic Local Alignment Search Tool," J Mol Biol 215:403-410 (1990)
	AS	2	Ansari, A.A. et al, "HLA-D gene studies in relation to immune responsiveness to a grass allergen Lol p 111," Immunogenet. 33:24-32 (1991)
	AT	2	Armitage, R.J., "Tumor necrosis factor receptor superfamily members and their ligands," Curr Opin Immunol 6:407-413 (June 1994)

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	AR	<u>3</u>	Baens, M. et al., "Construction and Evaluation of a hncDNA Library of Human 12p Transcribed Sequences Derived from a Somatic Cell Hybrid," <i>Genomics</i> 16:214-218 (1993)
	AS	<u>3</u>	Baker, E. et al., "Chromosomal location of the human tumor necrosis factor receptor genes," <i>Cytogenet. Cell Genet.</i> 57:117-118 (1991)
	AT	<u>3</u>	Banchereau, J. et al., "Long-Term Human B Cell Lines Dependent on Interleukin-4 and Antibody to CD40," <i>Science</i> 251:70-72 (1991)

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	AR	4	Banner, D.W. et al., "Crystal Structure of the Soluble Human 55 kd Receptor-Human TNF Complex: Implications for TNF Receptor Activation," <i>Cell</i> 73:431-445 (1993)				
	AS	4	Baum, P.R. et al., "Molecular characterization of murine and human OX40/OX40 ligand systems: identification of a human OX40 ligand as the HTLV-1-regulated protein gp34," <i>EMBO J</i> 13(17):3992-4001 (September 1994)				
	AT	4	Birkeland, M.L. et al., "Gene structure and chromosomal localization of the mouse homologue of rat OX40 protein," <i>Eur J Immunol</i> 25:926-930 (April 1995)				
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	AR	5	Bodmer, J.-L. et al., "TRAMP, a Novel Apoptosis-Mediating Receptor with Sequence Homology to Tumor Necrosis Factor Receptor 1 and Fas(Apo-1/CD95)," <i>Immunity</i> 6:79-88 (January 1997)
	AS	5	Camerini, D. et al., "The T Cell Activation Antigen CD27 is a Member of the Nerve Growth Factor/Tumor Necrosis Factor Receptor Gene Family," <i>J Immunol.</i> 147(9):3165-3169 (1991)
	AT	5	Chinnaiyan, A.M. et al., "Signal Transduction by DR3, a Death Domain-Containing Receptor Related to TNFR-1 and CD95," <i>Science</i> 274:990-992 (November 1996)

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	AR	<u>6</u>	Durkop, H. et al, "Molecular Cloning and Expression of a New Member of the Nerve Growth Factor Receptor Family That Is Characteristic for Hodgkin's Disease," <i>Cell</i> 68:421-427 (1992)
	AS	<u>6</u>	Engelmann, H. et al., "Two Tumor Necrosis Factor-binding Proteins Purified from Human Urine," <i>J Biol Chem</i> 265(3):1531-1536 (1990)
	AT	<u>6</u>	Feinstein, E. et al, "The death domain: a module shared by proteins with diverse cellular functions," <i>TIBS</i> 20:342-344 (September 1995)

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	AR	Z	Gillette-Ferguson, I. and C.L. Sidman, "A specific intercellular pathway of apoptotic cell death is defective in the mature peripheral T cells of autoimmune <i>lpr</i> and <i>gld</i> mice," <i>Eur. J. Immunol.</i> 24:1181-1185 (May 1994)				
	AS	Z	Goodwin, R.G. et al., "Molecular cloning of a ligand for the inducible T cell gene 4-1BB: a member of an emerging family of cytokines with homology to tumor necrosis factor," <i>Eur. J. Immunol.</i> 23:2631-2641 (1993)				
	AT	Z	Gruss, H.-J et al., "Pleiotropic Effects of the CD30 Ligand on CD30-Expressing Cells and Lymphoma Cell Lines," <i>Blood</i> 83(8):2045-2056 (April 1994)				
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AR	8	Himmeler, A. et al, "Molecular Cloning and Expression of human and Rat Tumor Necrosis Factor Receptor Chain (p60) and Its Soluble Derivative, Tumor Necrosis Factor-Binding Protein," <i>DNA and Cell Biol</i> 9(10):705-715 (1990)
AS	8	Hohmann, H.-P. et al, "Two Different Cell Types have Different Major Receptors for Human Tumor Necrosis Factor (TNF α)," <i>J. Biol. Chem.</i> 264(25):14927-14934 (1989)
AT	8	Howard, S.T. et al., "Vaccinia Virus Homologues of the Shope Fibroma Virus Inverted Terminal Repeat Proteins and a Discontinuous ORF Related to the Tumor Necrosis Factor Receptor Family," <i>Virology</i> 180:633-647 (1991)

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AR	2	Hsu, K.C. and M.V. Chao, "Differential Expression and Ligand Binding Properties of Tumor Necrosis Factor Receptor Chimeric Mutants," <i>J. Biol. Chem</i> 268(22):16430-16436 (1993)
AS	2	Mu, F.-Q. et al., "Cowpox Virus Contains Two Copies of an Early Gene Encoding a Soluble Secreted Form of the Type II TNF Receptor," <i>Virology</i> 204:343-356 (October 1994)
AT	2	Inui, S. et al., "Identification of the intracytoplasmic region essential for signal transduction through a B cell activation molecule, CD40," <i>Eur. J. Immunol</i> 20:1747-1753 (1990)

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	AR	<u>10</u>	Itoh, N. et al., "The Polypeptide Encoded by the cDNA for Human Cell Surface Antigen fas Can Mediate Apoptosis," <i>Cell</i> 66:233-243 (1991)				
	AS	<u>10</u>	Johnson, D. et al., "Expression and Structure of the Human NGF Receptor," <i>Cell</i> 47:545-554 (1986)				
	AT	<u>10</u>	Kitson, J. et al "A death-domain-containing receptor that mediates apoptosis," <i>Nature</i> 384:372-375 (November 1996)				
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	AR	<u>11</u>	Krammer, P.H. et al, "Regulation of apoptosis in the immune system," <i>Curr Opin Immunol</i> 6:279-289 (April 1994)				
	AS	<u>11</u>	Kwon, B.S. and S.M. Weissman, "cDNA sequences of two inducible T-cell genes," <i>Proc Natl Acad Sci USA</i> 86:1963-1967 (1989)				
	AT	<u>11</u>	Kwon, B.S. et al, "Genomic Organization and Chromosomal Localization of the T-Cell Antigen 4-1BB," <i>J. Immunol.</i> 152:2256-2262 (March 1994)				
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	AR	12	Lewis, M. et al., "Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:2830-2834 (1991)				
	AS	12	Loetscher, H. et al., "Molecular Cloning and Expression of the Human 55 kd Tumor Necrosis Factor Receptor," <i>Cell</i> 61:351-359 (1990)				
	AT	12	Mallett, S. et al., "Characterization of the MRC OX40 antigen of activated CD4 positive T lymphocytes - a molecule related to nerve growth factor receptor," <i>EMBO J.</i> 9(4):1063-1068 (1990)				
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	AR	13	Mallett, S. and A.W. Barclay, "A new superfamily of cell surface proteins related to the nerve growth factor receptor," <i>Immunol. Today</i> 12(7):220-223 (1991)
	AS	13	Marsters, S. et al, "Apo-3, a new member of the tumor necrosis factor receptor family, contains a death domain and activates apoptosis and NF- κ B," <i>Current Biology</i> 6:1669-1676 (December 1996)
	AT	13	Montgomery, R.I. et al, "A new Member of the TNG/NGF Receptor Family Can Mediate Herpes Simplex Virus 1 Entry Into Cells," <i>Eur Cytokine Netw</i> 7(2):159, Abstract No. 17 (1996)

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	AR	<u>14</u>	Muzio, M. et al., "FLICE, A Novel FADD-Homologous ICE/CED-3-like Protease, Is Recruited to the CD95 (Fas/APO-1) Death-Inducing Signaling Complex," <i>Cell</i> 85:817-827 (June 1996)
	AS	<u>14</u>	Nakagawa, T. et al., "Identification of an isoform with an extremely large Cys-rich region of PC6, a Kex2-like processing endoprotease," <i>FEBS Letter</i> 327:165-171 (1993)
	AT	<u>14</u>	Nopnar, Y. et al., "Soluble forms of tumor necrosis factor receptors (TNF-Rs). The cDNA for the type 1 TNF-R, cloned using amino acid sequence data of its soluble form, encodes both the cell surface and a soluble form of the receptor," <i>EMBO J.</i> 9(10):3269-3278 (1990)

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	AR	15	Pfeffer, K. et al, "Mice Deficient for the 55 kd Tumor Necrosis Factor Receptor Are Resistant to Endotoxic Shock, yet Succumb to L. monocytogenes Infection," <i>Cell</i> 75:457-467 (1993)				
	AS	15	Piguet, P.F. et al, "Evolution of collagen arthritis in mice is arrested by treatment with anti-tumor necrosis factor (TNF) antibody or a recombinant soluble TNF receptor," <i>Immunol</i> 77:510-514 (1992)				
	AT	15	Pollok, K.E. et al, "Inducible T Cell Antigen 4-1BB," <i>J Immunol</i> 150(3):771-781 (1993)				
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>16</u>	Radeke, M.J. et al, "Gene transfer and molecular cloning of the rat nerve growth factor receptor," <i>Nature</i> 325:593-597 (1987)
	AS	<u>16</u>	Roitt, I. et al, <i>Immunology</i> , 3rd Ed., Mosby, St. Louis, MO, pp- 4-16-4.17 (1994)
	AT	<u>16</u>	Rossol-Voth, R. et al, "In vivo protective effect of tumor necrosis factor α against experimental infection with herpes simplex virus type 1," <i>J. Gen. Virol.</i> 72:143-147 (1991)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Roche, M. et al., "A Novel Family of Putative Signal Transducers Associated with the Cytoplasmic Domain of the 75 kDa Tumor Necrosis Factor Receptor," <i>Cell</i> 78:681-692 (August 1994)
	AS	17	Schall, T.J. et al., "Molecular Cloning and Expression of a Receptor for Human Tumor Necrosis Factor," <i>Cell</i> 61:361-370 (1990)
	AT	17	Screaton, G. et al., "LARD: A new lymphoid-specific death domain containing receptor regulated by alternative pre-mRNA splicing," <i>Proc Natl. Acad. Sci. USA</i> 94:4615-4619 (April 1997)

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>18</u>	Smith, C.A. et al , "A Receptor for Tumor Necrosis Factor Defines an Unusual Family of Cellular and Viral Proteins," <i>Science</i> 248:1019-1023 (1990)
	AS	<u>18</u>	Smith, C.A. et al , "T2 Open Reading Frame from the Shope Fibroma Virus Encodes a Soluble Form of the TNF Receptor," <i>Biochem. Biophys Res. Comm.</i> 176(1):335-342 (1991)
	AT	<u>18</u>	Smith, C.A. et al , "CD30 Antigen, a Marker for Hodgkin's Lymphoma, Is a Receptor Whose Ligand Defines an Emerging Family of Cytokines with Homology to TNF," <i>Cell</i> 73:1349-1360 (1993)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	19	Smith, G.L., "vaccinia virus glycoproteins and immune evasion," <i>J. Gen. Virol.</i> 74:1725-1740 (1993)
	AS	19	Stamenkovic, I. et al, "A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas," <i>EMBO J</i> 8(5):1403-1410 (1989)
	AT	19	Tartaglia, L.A. et al, "The two different receptors for tumor necrosis factor mediate distinct cellular responses," <i>Proc Natl Acad Sci. USA</i> 88:9292-9296 (1991)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	20	Tartaglia, L.A. and D.V. Goeddel, "Tumor Necrosis Factor Receptor Signaling," <i>J. Biol Chem.</i> 267(7):4304-4307 (1992)
	AS	20	Tartaglia, L.A. et al, "A Novel Domain within the 55 kd TNF Receptor Signals Cell Death," <i>Cell</i> 74:845-853 (1993)
	AT	20	Torcia, M. et al, "Nerve Growth Factor Is an Autocrine Survival Factor for Memory B Lymphocytes," <i>Cell</i> 85:345-356 (1996)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	21	Van Lier, R.A.W. et al, "Tissue Distribution and Biochemical and Functional Properties of Tp55 (CD27), a Novel T Cell Differentiation Antigen," <i>J. Immunol.</i> 139(5):1589-1596 (1987)
	AS	21	van Oostade, X. et al, "Human tumor necrosis factor mutants with preferential binding to and activity on either the R55 or R75 receptor," <i>Eur. J. Biochem.</i> 220:771-779 (March 1994)
	AT	21	vandenabeele, P. et al, "Two tumor necrosis factor receptors: structure and function," <i>Trends Cell Biol.</i> 5:392-399 (October 1995)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	22	Database EMBL-new3 on MASPAP, Acc. No. L23876, Glasgow, E. and Schechter, N., "Nucleotide sequence of a GFAP-like Intermediate Filament cDNA from Goldfish retina," submitted 01 September 1993
	AS	22	Database EST-STS on MASPAP, (St. Louis, MO, USA), Acc. No. M14106, Miller, L. et al., "WASHU-Merck EST Project," submitted 10 July 1995
	AT	22	Database EMBL/GenBank/DDJB on MASPAP, Genetique Moleculaire (sic) et Biologie du developpement (Villejuif Cedex, France), Acc. No. Z38433, GENEXPRESS, Direct Submission, Submitted 26 October 1994

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	23	Database EST-STS on MASPAP, Whitehead Institute/MIT Center for Genome Research (Cambridge, MA, USA), Acc. No. G11923, Hudson, T., "Whitehead Institute/MIT Center for Genome Research; Physically Mapped STSs," submitted 23 October 1995				
	AS	23	Database EMBL-new3 on MASPAP, Acc. No. x60370, x60371, x60550, Zauner, W. et al., "Identification of Two Distinct microtubule Binding Domains on Recombinant Rat MAP 1B," submitted 21 October 1992				
	AT	23	Database EMBL-new3 on MASPAP, Acc. No. x75491, Astanidis, C. et al., "Genomic Organization of the Human Lysosomal Acid Lipase Gene (LIPA)," Submitted 01 March 1994				
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>24</u>	Database A-Geneseq24 on MASPAR, Acc. No. R38859, Aruffo, A.A. et al., "CD40CR Receptor and its' (sic) Ligands used to Inhibit B-Cell Activation in Allergy and Auto-immune Disease," submitted 07 February 1994, EP, A, 555880, 18 August 1993
AS	<u>24</u>	EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. H46211 (July 1995)
AT	<u>24</u>	EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. H46374 (July 1995)

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>25</u>	EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. M41851 (July 1995)
	AS	<u>25</u>	EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. M46662 (July 1995)
	AT	<u>25</u>	EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. M49675 (July 1995)

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>26</u>	EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. M46378 (July 1995)
AS	<u>26</u>	EST-STS Database on MASPAR, The WashU-Merck EST Project, Accession No. M46424 (July 1995)
AT	<u>26</u>	NCBI Entrez, GenBank Report, Accession No. M19739, from Millier, L. et al (July 1995)

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 009. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>27</u>	NCBI Entrez, GenBank Report, Accession No. H22502, from Hillier, L. et al. (July 1995)
	AS	<u>27</u>	NCBI Entrez, GenBank Report, Accession No. H41522, from Hillier, L. et al. (July 1995)
	AT	<u>27</u>	NCBI Entrez, GenBank Report, Accession No. W63660, from Hillier, L. et al. (March 1996)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	28	NCBI Entrez, GenBank Report, Accession No. N71143, from Millier, L. et al. (March 1996)
	AS	28	NCBI Entrez, GenBank Report, Accession No. N71141, from Millier, L. et al (March 1996)
	AT	28	NCBI Entrez, GenBank Report, Accession No. W01590, from Millier, L. et al, (April 1996)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>29</u>	NCBI Entrez, GenBank Report, Accession No. W01592, from Millier, L. et al (April 1996)
AS	<u>29</u>	NCBI Entrez, GenBank Report, Accession No. W71984, from Millier, L. et al (October 1996)
AT	<u>29</u>	NCBI Entrez, GenBank Report, Accession No. W76376, from Millier, L. et al (October 1996)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>30</u>	NCBI Entrez, GenBank Report, Accession No. AA088350, from Hillier, L. et al (October 1996)
	AS	<u>30</u>	NCBI Entrez, GenBank Report, Accession No. AA476747, from Hillier, L. et al (August 1997)
	AT	<u>30</u>	NCBI Entrez, GenBank Report, Accession No. AA476749, from Hillier, L. et al (August 1997)

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	AN						Yes
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	AO						Yes
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	AP						Yes
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	AR	<u>31</u>	NCBI Entrez, GenBank Report, Accession No. AA524052, from NCI-CCAP (August 1997)
	AS	<u>31</u>	NCBI Entrez, GenBank Report, Accession No. AA088232, from Hillier, L. et al. (October 1996)
	AT	<u>31</u>	NCBI Entrez, GenBank Report, Accession No. AA631757, from NCI-CCAP (October 1997)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	<u>32</u>	NCBI Entrez, GenBank Report, Accession No. AA709231, from NCI-CGAP (January 1998)
	AS	<u>32</u>	NCBI Entrez, GenBank Report, Accession No. CAA70561, Kitson, J. et al (December 1996)
	AT	<u>32</u>	NCBI Entrez, GenBank Report, Accession No. AAB41432, Chaudhary, P.M. and Hood, L.E. (January 1997)

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
				APPLICANT Yu et al.			
				FILING DATE June 16, 1999		GROUP 1646	
U.S. PATENT DOCUMENTS							
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	AR	<u>33</u>	NCBI Entrez, GenBank Report, Accession No. U94503, Screation, G.R. et al (May 1997)				
	AS	<u>33</u>	NCBI-Entrez, GenBank Report, Accession No. U94502, Screation, G.R. et al (May 1997)				
	AT	<u>33</u>	NCBI Entrez, GenBank Report, Accession No. Y09392, Kitson, J. et al (December 1996)				
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
				APPLICANT Yu et al.			
				FILING DATE June 16, 1999		GROUP 1646	
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	AS	<u>34</u>	NCBI Entrez, GenBank Report, Accession No. U94510, Scream, G.R. et al. (May 1997)				
	AT	<u>34</u>	NCBI Entrez, GenBank Report, Accession No. AAC51314, Scream, G.R. et al (February 1999)				
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	APPLICANT Yu et al	
	FILING DATE June 16, 1999	GROUP 1646

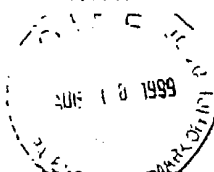
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
AR	35	NCBI Entrez, GenBank Report, Accession No. AAC51192, Bodmer, J.L. et al (February 1999)	
AS	35	NCBI Entrez, GenBank Report, Accession No. NP 003781, Marsters. S.A. et al. (March 1999)	
AT			

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PIQ-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 16, 1999	GROUP 1646

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<i>[Signature]</i>	AA1	5,395,760	03/07/1995	Smith et al	435	240.1	05/10/1990
<i>[Signature]</i>	AB1	5,464,938	11/07/1995	Smith et al	530	350	08/18/1994
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<i>[Signature]</i>	AL1	EP 0 585 939 A2	03/09/1994	Europe	✓	✗	Yes No
<i>[Signature]</i>	AM1	WO 94/09137	04/28/1994	WIPO	✓	✓	Yes No
<i>[Signature]</i>	AN1	WO 94/13808	06/23/1994	WIPO	✓	✓	Yes No
<i>[Signature]</i>	AO1	WO 97/37020	10/09/1997	WIPO	✗	✓	Yes No
<i>[Signature]</i>	AP1	WO 98/14565	04/09/1998	WIPO	✗	✗	Yes No

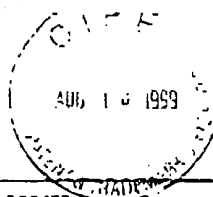
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>[Signature]</i>	AR	1	Adams, M.D. et al, "Complementary DNA Sequencing: Expressed Sequence Tags and human Genome Project," <i>Science</i> 252:1651-1656 (1991)
<i>[Signature]</i>	AS	1	Adams, M.D. et al, "Sequence identification of 2,375 human brain genes," <i>Nature</i> 355:632-634 (1992)
<i>[Signature]</i>	AT	1	Aggarwal, B.B. and K. Natarajan, "Tumor necrosis factors: Developments during the last decade," <i>Eur Cytokine Netw</i> 7(2):93-124 (April-June 1996)

EXAMINER <i>JCL - CIL</i>	DATE CONSIDERED 5-16-00
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FORM PID-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 16, 1999	GROUP 1646

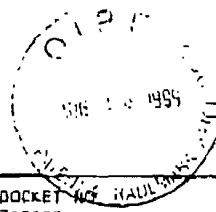
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	AO						YES NO
	AP						YES NO

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	2	Altschul, S.F. et al, "Basic Local Alignment Search Tool," J. Mol Biol. 215:403-410 (1990)
	AS	2	Andari, A.A. et al, "HLA-D gene studies in relation to immune responsiveness to a grass allergen Lol p Ii," Immunogenet 33:24-32 (1991)
	AT	2	Armitage, R.J., "Tumor necrosis factor receptor superfamily members and their ligands," Curr Opin Immunol 6:407-413 (June 1994)

EXAMINER Jou - Lin	DATE CONSIDERED 5-11-02
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 16, 1999	GROUP 1046

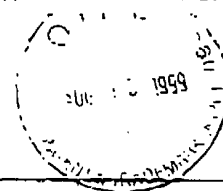
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	AM						Yes NO
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	AO						Yes NO
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	3	Baens, M. et al., "Construction and Evaluation of a hncDNA Library of Human 12p Transcribed Sequences Derived from a Somatic Cell Hybrid," <i>Genomics</i> 16:214-218 (1993)				
	AS	3	Baker, E. et al., "Chromosomal location of the human tumor necrosis factor receptor genes," <i>Cytogenet. Cell Genet</i> 57:117-118 (1991)				
	AT	3	Banchereau, J. et al., "Long-Term Human B Cell Lines Dependent on Interleukin-4 and Antibody to CD40," <i>Science</i> 251:70-72 (1991)				

EXAMINER Jae - G.	DATE CONSIDERED f-16-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY- DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 16, 1999	GROUP 1646

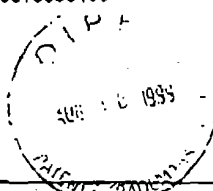
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2 ✓	AR	6	Banner, D.W. et al, "Crystal Structure of the Soluble Human 55 kd Receptor-Human TNF Complex: Implications for TNF Receptor Activation," Cell 73:431-445 (1993)
2 ✓	AS	6	Baum, P.R. et al, "Molecular characterization of murine and human OX40/OX40 ligand systems: Identification of a human OX40 ligand as the HTLV-1-regulated protein gp34," EMBO J 13(17):3992-4001 (September 1994)
2 ✓	AT	6	Birkeland, M.L. et al, "Gene structure and chromosomal localization of the mouse homologue of rat OX40 protein," Eur J Immunol 25:926-930 (April 1995)

EXAMINER <i>Joh - UH</i>	DATE CONSIDERED <i>5 16-01</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT

ATT. DOCKET NO.
1488.0510005

APPLICATION NO.
09/333.966

APPLICANT
Yu et al

FILING DATE
June 16, 1999

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1646

U.S. PATENT DOCUMENTS

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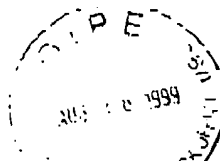
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	5	Bodmer, J.-L. et al. "TRAMP, a Novel Apoptosis-Mediating Receptor with Sequence Homology to Tumor Necrosis Factor Receptor 1 and Fas(Apo-1/CD95)," <i>Immunity</i> 6:79-88 (January 1997)
2	AS	5	Camerini, D. et al. "The T Cell Activation Antigen CD27 Is a Member of the Nerve Growth Factor/Tumor Necrosis Factor Receptor Gene Family," <i>J. Immunol.</i> 147(3):3165-3169 (1991)
2	AT	5	Chinnaiyan, A.M. et al. "Signal Transduction by DR3, a Death Domain-Containing Receptor Related to TNFR-1 and CD95," <i>Science</i> 274:990-992 (November 1996)

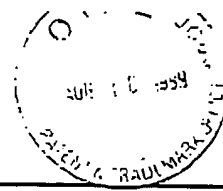
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DATE CONSIDERED 5-16-00

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449		ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
INFORMATION DISCLOSURE STATEMENT		APPLICANT Yu et al		FILING DATE June 16, 1999	
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2	AR	6	Durkop, H. et al, "Molecular Cloning and Expression of a New Member of the Nerve Growth Factor Receptor Family That Is Characteristic for Hodgkin's Disease," <i>Cell</i> 68:421-427 (1992)		
2	AS	6	Engelmann, H. et al, "Two Tumor Necrosis Factor-binding Proteins Purified from Human Urine," <i>J Biol Chem</i> 265(3):1531-1536 (1990)		
2	AT	6	Feinstein, E. et al, "The death domain: a module shared by proteins with diverse cellular functions," <i>TIBS</i> 20:342-344 (September 1995)		
EXAMINER <u>Jol</u> <u>W</u>				DATE CONSIDERED <u>5-16-00</u>	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					



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	APPLICANT YU ET AL	
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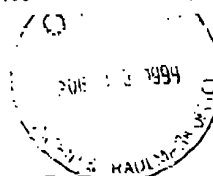
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2	AR	Z	Gillette-Ferguson, I. and C.L. Sidman, "A specific intercellular pathway of apoptotic cell death is defective in the mature peripheral T cells of autoimmune lpr and gld mice," <i>Eur J. Immunol</i> 24:1181-1185 (May 1994)
2	AS	Z	Goodwin, R.G. et al., "Molecular cloning of a ligand for the inducible T cell gene 4-1BB: a member of an emerging family of cytokines with homology to tumor necrosis factor," <i>Eur J Immunol</i> 23:2631-2641 (1993)
2	AT	Z	Gruss, H.J. et al., "Pleiotropic Effects of the CD30 Ligand on CD30-Expressing Cells and Lymphoma Cell Lines," <i>Blood</i> 83(18):2045-2056 (April 1994)

EXAMINER		DATE CONSIDERED	5-16-01
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
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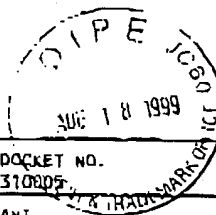
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2	AR	8	Hummer, A. et al, "Molecular Cloning and Expression of Human and Rat Tumor Necrosis Factor Receptor Chain (p60) and Its Soluble Derivative, Tumor Necrosis Factor-Binding Protein," <i>DNA and Cell Biol</i> 9(10):705-715 (1990)
2	AS	8	Kohnmann, H.-P. et al, "Two Different Cell Types have Different Major Receptors for Human Tumor Necrosis Factor (TNF α)," <i>J Biol Chem</i> 264(25):14927-14934 (1989)
2	AT	8	Howard, S.T. et al, "Vaccinia Virus homologues of the Shope Fibroma virus Inverted terminal Repeat Proteins and a Discontinuous ORF Related to the Tumor Necrosis Factor Receptor Family," <i>Virology</i> 180:633-647 (1991)

EXAMINER <u>Joe L.</u>	DATE CONSIDERED <u>5-16-06</u>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTQ-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333.966
	APPLICANT Tu et al	
	FILING DATE June 16, 1999	GROUP 1646

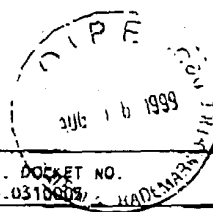
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	9	Hsu, K.C. and M.V. Chao, "Differential Expression and Ligand Binding Properties of Tumor Necrosis Factor Receptor Chimeric Mutants," <i>J Biol Chem</i> 268(22):16430-16436 (1993)
2	AS	9	MW, F.-Q. et al, "Complex Virus Contains Two Copies of an Early Gene Encoding a Soluble Secreted Form of the Type II TNF Receptor," <i>Virology</i> 204:343-356 (October 1994)
2	AT	9	Inui, S. et al, "Identification of the Intracytoplasmic region essential for signal transduction through a B cell activation molecule, CD40," <i>Eur J Immunol</i> 20:1747-1753 (1990)

EXAMINER 2	DATE CONSIDERED 5-16-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310002	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 10, 1999	GROUP 1646

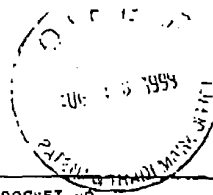
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2	AR	10	Itah, N. et al, "The Polypeptide Encoded by the cDNA for Human Cell Surface Antigen Fas Can Mediate Apoptosis," Cell 66:233-243 (1991)
✓	AS	10	Johnson, D. et al, "Expression and Structure of the Human NGF Receptor," Cell 47:545-554 (1986)
✓	AT	10	Kitson, J. et al, "A death-domain-containing receptor that mediates apoptosis," Nature 384:372-375 (November 1996)

EXAMINER 762- C.	DATE CONSIDERED 5-16-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTQ-1449 INFORMATION DISCLOSURE STATEMENT				ATTY DOCKET NO. 1488 031U005		APPLICATION NO. 09/333,966	
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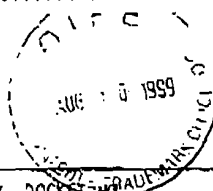
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	11	Krammer, P.M. et al, "Regulation of apoptosis in the immune system," <i>Curr Opin Immunol</i> 6:279-289 (April 1994)
✓	AS	11	Kwon, B.S. and S.M. Weissman, "cDNA sequences of two inducible T-cell genes," <i>Proc Natl Acad Sci USA</i> 86:1963-1967 (1989)
2	AT	11	Kwon, B.S. et al, "Genomic Organization and Chromosomal Localization of the T-Cell Antigen 4-1BB," <i>J Immunol</i> 152:2256-2262 (March 1994)

EXAMINER Jul 11	DATE CONSIDERED 5-18-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
		APPLICANT Yu ET al			
		FILING DATE June 16, 1999		GROUP 1646	

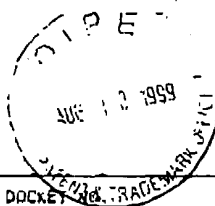
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	12	Lewis, M. et al, "Cloning and expression of cDNAs for two distinct murine tumor necrosis factor receptors demonstrate one receptor is species specific," <i>Proc Natl Acad Sci USA</i> 88:2830-2834 (1991)
2	AS	12	Loetscher, M. et al, "Molecular Cloning and Expression of the Human 55 kd Tumor Necrosis Factor Receptor," <i>Cell</i> 61:351-359 (1990)
2	AT	12	Mallett, S. et al, "Characterization of the MRC OX40 antigen of activated CD4 positive T lymphocytes - a molecule related to nerve growth factor receptor," <i>EMBO J</i> 9(4):1063-1068 (1990)

EXAMINER	John - LK	DATE CONSIDERED	5-16-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,900
	APPLICANT Yu et al	
	FILING DATE June 10, 1999	GROUP 1646

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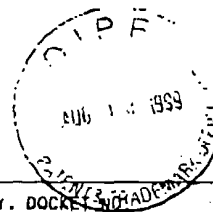
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	13	Mallett, S. and A.W. Barclay, "A new superfamily of cell surface proteins related to the nerve growth factor receptor," <i>Immunol Today</i> 12(7):220-223 (1991)
2	AS	13	Marskers, S. et al., "Apo-3, a new member of the tumor necrosis factor receptor family, contains a death domain and activates apoptosis and NF- κ B," <i>Current Biology</i> 6:1669-1676 (December 1996)
2	AT	13	Montgomery, R.L. et al., "A New Member of the TNF/NGF Receptor Family Can Mediate Herpes Simplex Virus 1 Entry into Cells," <i>Eur Cytokine Netw</i> 7(2):159, Abstract No. L7 (1996)

EXAMINER John C. [Signature]	DATE CONSIDERED 5-16-00
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333.900
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	FILING DATE June 16, 1999	GROUP 1646

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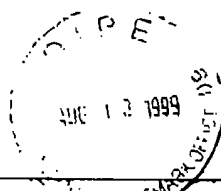
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	16	Muzio, M. et al, "FLICE, A Novel FADD-homologous ICE/CED-3-like Protease, Is Recruited to the CD95 (Fas/APO-1) Death-Inducing Signaling Complex," Cell 85:817-827 (June 1996)
2	AS	16	Nakagawa, Y. et al, "Identification of an isoform with an extremely large Cys-rich region of PCo, a Kex2-like processing endoprotease," FEBS Letter 327:165-171 (1993)
2	AT	16	Nophar, Y. et al, "Soluble forms of tumor necrosis factor receptors (TNF-Rs). The cDNA for the type 1 TNF-R, cloned using amino acid sequence data of its soluble form, encodes both the cell surface and a soluble form of the receptor," EMBO J 9(10):3269-3278 (1990)

EXAMINER	John L...	DATE CONSIDERED	5-16-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 16, 1999	GROUP 1646

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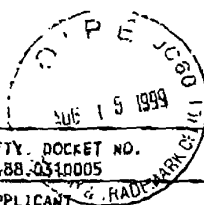
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

2	AR	15	Pfetter, K. et al. "Mice Deficient for the 55 kd Tumor Necrosis Factor Receptor Are Resistant to Endotoxic Shock, yet Succumb to L. monocytogenes Infection." <i>Cell</i> 75:457-467 (1993)
✓	AS	15	Piguet, P.F. et al. "Evolution of collagen arthritis in mice is arrested by treatment with anti-tumor necrosis factor (TNF) antibody or a recombinant soluble TNF receptor." <i>Immunol</i> 77:510-514 (1992)
✓	AT	15	Pollok, K.E. et al. "Inducible T Cell Antigen 4-1BB." <i>J Immunol</i> 150(1):771-781 (1993)

EXAMINER <i>Julian G</i>	DATE CONSIDERED <i>5-16-99</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



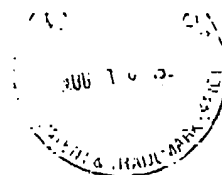
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	FILING DATE June 10, 1999	GROUP 1646

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	16	Radeke, M.J. et al, "Gene transfer and molecular cloning of the rat nerve growth factor receptor," <i>Nature</i> 325:593-597 (1987)
2	AS	16	Roitt, I. et al, <i>Immunology</i> , 3rd Ed., Mosby, St. Louis, MO, pp. 4.16-4.17 (1994)
2	AT	16	Rossol-vorn, R. et al, "In vivo protective effect of tumor necrosis factor α against experimental infection with herpes simplex virus type 1," <i>J Gen Virol</i> 72:143-147 (1991)

EXAMINER John Linn	DATE CONSIDERED 5-16-00
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
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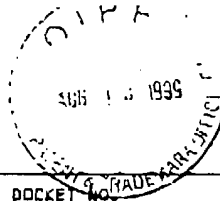
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OTHER (including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	17	Rothe, M. et al, "A Novel Family of Putative Signal Transducers Associated with the Cytoplasmic Domain of the 75 kDa Tumor Necrosis Factor Receptor," <i>Cell</i> 78:681-692 (August 1994)
2	AS	17	Schall, T.J. et al, "Molecular Cloning and Expression of a Receptor for human Tumor Necrosis Factor," <i>Cell</i> 61:361-370 (1990)
2	AT	17	Screaton, G. et al, "LARD: A new lymphoid-specific death domain containing receptor regulated by alternative pre-mRNA splicing," <i>Proc Natl Acad Sci USA</i> 94:4615-4619 (April 1997)

EXAMINER <u>John C.</u>	DATE CONSIDERED <u>5-16-00</u>
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
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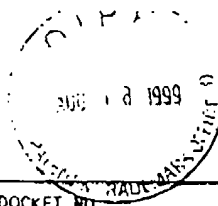
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2	AR	18	Smith, C.A. et al, "A Receptor for Tumor Necrosis Factor Defines an Unusual Family of Cellular and Viral Proteins," <i>Science</i> 248:1019-1023 (1990)
3	AS	18	Smith, C.A. et al, "T2 Open Reading Frame from the Shope Fibroma virus Encodes a Soluble Form of the TNF Receptor," <i>Biochem. Biophys. Res. Comm.</i> 176(1):335-342 (1991)
2	AT	18	Smith, C.A. et al, "CD30 Antigen, a Marker for Hodgkin's Lymphoma, is a Receptor whose Ligand Defines an Emerging Family of Cytokines with Homology to TNF," <i>Cell</i> 73:1349-1360 (1993)

EXAMINER John L. L.	DATE CONSIDERED 5-16-99
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,965	
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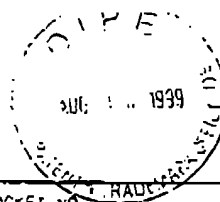
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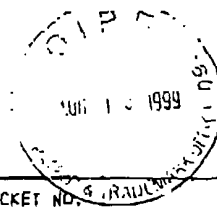
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2	AR	19	Smith, G.L., "vaccinia virus glycoproteins and immune evasion," <i>J Gen Virol</i> 74:1725-1740 (1993)
2	AS	19	Stamenkovic, I. ET al, "A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas," <i>EMBO J</i> 8(5):1403-1410 (1989)
✓	AT	19	Tartaglia, L.A. ET al, "The two different receptors for tumor necrosis factor mediate distinct cellular responses," <i>Proc Natl Acad Sci USA</i> 88:9292-9296 (1991)

EXAMINER J. L. U	DATE CONSIDERED 5-16-02
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966			
		APPLICANT TW ET JI					
		FILING DATE June 16, 1999		GROUP 1646			
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2	AR	20	Tartaglia, L.A. and D.V. Goeddel, "Tumor necrosis Factor Receptor Signaling," <i>J Biol Chem</i> 267(7):4304-4307 (1992)				
2	AS	20	Tartaglia, L.A. et al, "A Novel Domain within the 55 kd TNF Receptor Signals Cell Death," <i>Cell</i> 74:845-853 (1993)				
2	AT	20	Torcia, M. et al, "Nerve Growth Factor Is an Autocrine Survival Factor for Memory B Lymphocytes," <i>Cell</i> 85:345-356 (1996)				
EXAMINER Jen Kim				DATE CONSIDERED 8-16-02			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yin et al	
	FILING DATE June 15, 1999	GROUP 1346

U.S. PATENT DOCUMENTS

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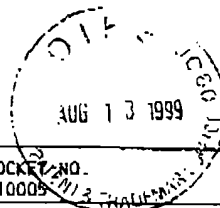
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2	AR	21	van Lier, R.A.W. et al, "Tissue Distribution and Biochemical and Functional Properties of Tp55 (CD27), a Novel T Cell Differentiation Antigen," J Immunol 139(5):1589-1596 (1987)
2	AS	21	van Oostade, X. et al, "Human tumor necrosis factor mutants with preferential binding to and activity on either the R55 or R75 receptor," Eur J Biochem 220:771-779 (March 1994)
2	AT	21	vandenabeele, P. et al, "Two tumor necrosis factor receptors: structure and function," Trends Cell Biol 5:392-399 (October 1995)

EXAMINER John W.	DATE CONSIDERED 5-16-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM P10-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310009	APPLICATION NO. 09/333,966
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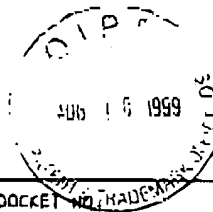
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2	AR	22	Database Embl-new3 on MASPAR, Acc. No. L23876, Glasgow, E. and Schechter, N., "Nucleotide sequence of a GFAP-like Intermediate Filament cDNA from Goldfish retina," submitted 01 September 1993
2	AS	22	Database EST-STS on MASPAR, (St. Louis, MO, USA), Acc. No. M14106, Miller, L. et al., "Washu-Merck EST Project," submitted 10 July 1995
2	AT	22	Database EMBL/GenBank/DDJB on MASPAR, Genetique moleculaire (sic) et Biologie du developpement (villejuif Cedex, France), Acc. No. 238433, GENEXPRESS, Direct Submission, Submitted 26 October 1994

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FORM PTO-1449		ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
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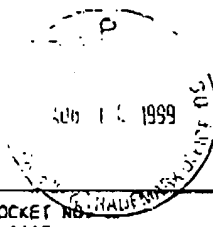
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22	AR	23	Database EST-STS on MASPAR, Whitehead Institute/MIT Center for Genome Research (Cambridge, MA, USA), Acc. No. G11923, Hudson, T., "Whitehead Institute/MIT Center for Genome Research; Physically Mapped STSs," submitted 23 October 1995
23	AS	23	Database EMBL-new3 on MASPAR, Acc. No. x60370, x60371, x60550, Zauner, W. et al, "Identification of Two Distinct Microtubule Binding Domains on Recombinant Rat MAP 1B," submitted 21 October 1992
24	AT	23	Database EMBL-new3 on MASPAR, Acc. No. x75491, Anastidis, C. et al, "Genomic Organization of the Human Lysosomal Acid Lipase Gene (LIPA)," Submitted 01 March 1994

EXAMINER JOL	DATE CONSIDERED 5-16-00
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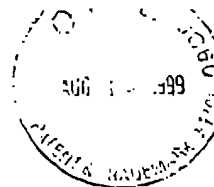
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2	AR	26	Database A-Geneseq24 on MASPAP, Acc. No. R38859, Aruffo, A.A. et al., "CD40CR Receptor and its (sic) Ligands used to Inhibit B-Cell Activation in Allergy and Auto-immune Disease," submitted 07 February 1994, EP, A, 555880, 18 August 1993
2	AS	26	EST-STS Database on MASPAP, The washu-merck EST Project, Accession No. H46211 (July 1995)
2	AT	26	EST-STS Database on MASPAP, The washu-merck EST Project, Accession No. H46374 (July 1995)

EXAMINER <u>John C. H.</u>	DATE CONSIDERED <u>5-16-00</u>
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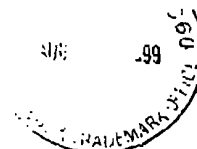
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTN: DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966			
		APPLICANT Yu et al.					
		FILING DATE June 16, 1999		GROUP 1046			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
2	AR	25	EST-STS Database on MASPAP, The Washu-Merck EST Project, Accession No. H41851 (July 1995)				
2	AS	25	EST-STS Database on MASPAP, The Washu-Merck EST Project, Accession No. H46662 (July 1995)				
2	AT	25	EST-STS Database on MASPAP, The Washu-Merck EST Project, Accession No. H49675 (July 1995)				
EXAMINER JUL C				DATE CONSIDERED 5-16-99			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

N/A

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Page 2b of 35

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. POCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 10, 1999	GROUP 1646

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	26	EST-STS Database on MASPAR, The Washu-Merck EST Project, Accession No. M46378 (July 1995)
~	AS	26	EST-STS Database on MASPAR, The Washu-Merck EST Project, Accession No. M46424 (July 1995)
✓	AT	26	NCBI Entrez, GenBank Report, Accession No. M19739, from Hillier, L. et al (July 1995)

EXAMINER Jol - U1	DATE CONSIDERED 5-11-03
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Page 27 of 35

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
				APPLICANT Yu et al			
				FILING DATE June 10, 1999		GROUP 1646	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes NO
	AN						Yes NO
	AO						Yes NO
	AP						Yes NO
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
✓	AR	27	NCBI Entrez, GenBank Report, Accession No. M22502, from Hillier, L. et al (July 1995)				
✓	AS	27	NCBI Entrez, GenBank Report, Accession No. M41522, from Hillier, L. et al (July 1995)				
✓	AT	27	NCBI Entrez, GenBank Report, Accession No. M63660, from Hillier, L. et al (March 1996)				
EXAMINER JOL - CLK					DATE CONSIDERED 5-16-00		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

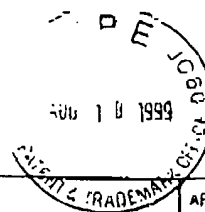
FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
				APPLICANT Yu et al			
				FILING DATE June 16, 1999		GROUP 1646	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						YES NO
	AN						YES NO
	AO						YES NO
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
2	AR	28	NCBI Entrez, GenBank Report, Accession No. M71143, from Millier, L. et al (March 1996)				
2	AS	28	NCBI Entrez, GenBank Report, Accession No. M71141, from Millier, L. et al (March 1996)				
2	AT	28	NCBI Entrez, GenBank Report, Accession No. M01590, from Millier, L. et al, (April 1996)				
EXAMINER JOL - LHM					DATE CONSIDERED 5-18-06		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							

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Page 29 of 3

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
				APPLICANT Yu et al			
				FILING DATE June 16, 1999		GROUP 1646	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
2	AR	29	NCBI Entrez, GenBank Report, Accession No. W01592, from Hillier, L. et al (April 1996)				
2	AS	29	NCBI Entrez, GenBank Report, Accession No. W71984, from Hillier, L. et al (October 1996)				
2	AT	29	NCBI Entrez, GenBank Report, Accession No. W76376, from Hillier, L. et al (October 1996)				
EXAMINER				DATE CONSIDERED			
Tol - Cui				5-16-00			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
				APPLICANT TU ET AL			
				FILING DATE June 10, 1999		GROUP 1646	

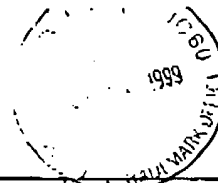
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AO						Yes No
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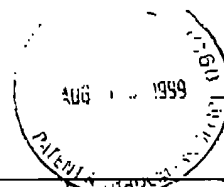
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2	AR	30	NCBI Entrez, GenBank Report, Accession No. AA088350, from MILLIER, L. ET AL (October 1996)
2	AS	30	NCBI Entrez, GenBank Report, Accession No. AA476747, from MILLIER, L. ET AL (August 1997)
✓	AT	30	NCBI Entrez, GenBank Report, Accession No. AA476749, from MILLIER, L. ET AL (August 1997)

EXAMINER <u>TOL - U. -</u>	DATE CONSIDERED <u>5-16-01</u>
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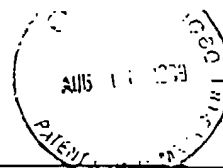
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449		ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333.966	
INFORMATION DISCLOSURE STATEMENT		APPLICANT Yu et al		FILING DATE June 16, 1999	
		GROUP 1646			
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS
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FOREIGN PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)					
2	AR	31	NCBI Entrez, GenBank Report, Accession No. AA524052, from NCI-CCAF (August 1997)		
2	AS	31	NCBI Entrez, GenBank Report, Accession No. AA088232, from Hillier, L. et al (October 1996)		
2	AT	31	NCBI Entrez, GenBank Report, Accession No. AA631757, from NCI-CCAF (October 1997)		
EXAMINER <u>John C. Williams</u>				DATE CONSIDERED <u>5-16-00</u>	
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1488.031QD05		APPLICATION NO. 09/333,966			
		APPLICANT Yu et al		FILING DATE June 16, 1999			
		GROUP 1646					
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
2	AR	32	NCBI Entrez, GenBank Report, Accession No. AA709231, from NCI-CGAP (January 1998)				
2	AS	32	NCBI Entrez, GenBank Report, Accession No. CAA70567, Kitson, J. et al (December 1996)				
✓	AT	32	NCBI Entrez, GenBank Report, Accession No. AAB41432, Chaudhary, P.M. and Hood, L.E. (January 1997)				
EXAMINER <u>John C.</u>				DATE CONSIDERED <u>5-16-00</u>			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>				ATTY. DOCKET NO. 1488.0310005		APPLICATION NO. 09/333,966	
				APPLICANT YU ET AL			
				FILING DATE June 16, 1999		GROUP 1646	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	33	NCBI Entrez, GenBank Report, Accession No. U94503, Sreaton, G.R. et al. (May 1997)
✓	AS	33	NCBI Entrez, GenBank Report, Accession No. U94502, Sreaton, G.R. et al (May 1997)
✓	AT	33	NCBI Entrez, GenBank Report, Accession No. Y09392, Kitson, J. et al (December 1996)

EXAMINER <u>John W.</u>	DATE CONSIDERED <u>5-16-00</u>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005	APPLICATION NO. 09/333,966
	APPLICANT Yu et al	
	FILING DATE June 10, 1999	GROUP 1646

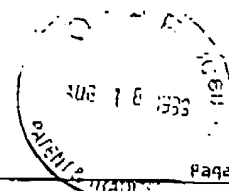
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
2	AR	34	NCBI Entrez, GenBank Report, Accession No. U94509, Sreaton, G.R. et al (May 1997)
2	AS	34	NCBI Entrez, GenBank Report, Accession No. U94510, Sreaton, G.R. et al (May 1997)
2	AT	34	NCBI Entrez, GenBank Report, Accession No. AAC51314, Sreaton, G.R. et al (February 1999)

EXAMINER Tou - CLK	DATE CONSIDERED 5-16-00
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Page 35 of 31

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1488.0370005		APPLICATION NO. 09/333,966	
				APPLICANT Yu et al			
				FILING DATE June 16, 1999		GROUP 1646	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
2	AR	35	NCBI Entrez, GenBank Report, Accession No. AAC51192, Bodmer, J.L. et al (February 1999)				
✓	AS	35	NCBI Entrez, GenBank Report, Accession No. NP 003781, Marsters, S.A. et al (March 1999)				
	AT						
EXAMINER John L. L...					DATE CONSIDERED 5-16-00		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.0310005APPLICATION NO.
09/333.966APPLICANT
Yu et alFILING DATE
June 16, 1999GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AC1	4,179,337	12/18/1979	Davis et al	435	181	07/28/1977
	AD1	5,120,525	06/09/1992	Goldenberg	424	1.1	12/05/1990
	AE1	5,656,272	08/12/1997	Le et al.	424	133.1	02/04/1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	WO 98/32856	07/30/1998	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AS		
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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1488.0310005APPLICATION NO.
09/333,966APPLICANT
Yu et alFILING DATE
June 16, 1999GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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2	AC1	4,179,337	12/18/1979	Davis et al	435	181	07/28/1977
2	AD1	5,120,525	06/09/1992	Goldenberg	424	1.1	12/05/1990
2	AE1	5,656,272	08/12/1997	Le et al	424	133.1	02/04/1994
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
2	AL2	WO 98/32856	07/30/1998	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AS		
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EXAMINER

JH U1

DATE CONSIDERED

5-1-07

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Approved

FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005/EKS/PSC	APPLICATION NO. 09/333,966
	APPLICANT YU et al.	
	FILING DATE June 16, 1999	GROUP 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	36	Cortier, T.G., et al., "The Induction of Apoptosis by Chemotherapeutic Agents Occurs in All Phases of the Cell Cycle," <i>Anticancer Res.</i> 12:773-780, J.G. Delinasios (1992).
	AS	36	Huss, R., et al., "Cyclosporine-induced apoptosis in CD4 ⁺ T lymphocytes and computer-simulated analysis: modeling a treatment scenario for HIV infection," <i>Res. Immunol.</i> 146:101-108, Elsevier (February 1995).
	AT	36	Van Antwerp, D.J., et al., "Inhibition of TNF-induced apoptosis by NF- κ B," <i>Trends Cell Biol.</i> 8:107-111, Elsevier Science Ltd. (1998).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1488.0310005/EKS/PSC	APPLICATION NO. 09/333,966
	APPLICANT YU et al.	
	FILING DATE June 16, 1999	GROUP 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	37	Walter, D.H., et al., "Cyclosporin A Inhibits Apoptosis of Human Endothelial Cells by Preventing Release of Cytochrome C From Mitochondria," <i>Circulation</i> 98:1153-1157, American Heart Association, Inc. (1998).
	AS	37	Wang, E.C.Y., et al., "DR3 Regulates Negative Selection during Thymocyte Development," <i>Mol. Cell. Biol.</i> 21:3451-3461, American Society for Microbiology (2001).
	AT		

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449
SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
 1488.0310005/EKS/PSC

APPLICATION NO
 09/333,966

APPLICANT
 YU et al.

FILING DATE
 June 16, 1999

GROUP
 1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
	AS		
	AT	35	Chen, G., et al., "Induction of p53-Independent Apoptosis by Hygromycin B: Suppression by Bcl-2 and Adenovirus E1B 19-kDa Protein," Exp. Cell Res 221:55-59, Academic Press, Inc. (November 1995).

EXAMINER

John M.

DATE CONSIDERED 2-14-03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant

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PATENT & TRADEMARK OFFICE

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FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1488.0310005/EKS/PSCAPPLICATION NO.
09/333,966APPLICANT
YU et al.FILING DATE
June 16, 1999GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
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	AJ						
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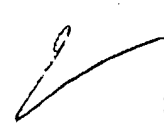

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	36	Cotter, T.G., et al., "The Induction of Apoptosis by Chemotherapeutic Agents Occurs in All Phases of the Cell Cycle," <i>Anticancer Res.</i> 12:773-780, J.G. Delinassios (1992).
	AS	36	Huss, R., et al., "Cyclosporine-induced apoptosis in CD4 ⁺ T lymphocytes and computer-simulated analysis: modeling a treatment scenario for HIV infection," <i>Res Immunol.</i> 146:101-108, Elsevier (February 1995).
	AT	36	Van Antwerp, D.J., et al., "Inhibition of TNF-induced apoptosis by NF- κ B," <i>Trends Cell Biol.</i> 8:107-111, Elsevier Science Ltd. (1998).

EXAMINER

John C.

DATE CONSIDERED

2-17-03

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Page 3 of 3

FORM PTO-1449 <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1488.0310005/EKS/PSC	APPLICATION NO. 09/333,966
	APPLICANT YU et al.	
	FILING DATE June 16, 1999	GROUP 1646

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	37	Walter, D.H., et al., "Cyclosporin A Inhibits Apoptosis of Human Endothelial Cells by Preventing Release of Cytochrome C From Mitochondria," <i>Circulation</i> 98:1153-1157, American Heart Association, Inc (1998).
	AS	37	Wang, E.C.Y., et al., "DR3 Regulates Negative Selection during Thymocyte Development," <i>Mol. Cell Biol.</i> 21:3451-3461, American Society for Microbiology (2001).
	AT		

EXAMINER	DATE CONSIDERED 2-14-03
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	09/333,966		
		Filing Date	June 16, 1999		
		First Named Inventor	Guo-Liang Yu		
		Art Unit	1646		
		Examiner Name	J. Uim		
Sheet	1	of	4	Attorney Docket Number	PF267D1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	5 349,052	09/20/1994	Delgado et al.	
	AB	5,478,925	12/26/1995	Wallach et al.	
	AC	5,643,575	07/01/1997	Marinez et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AD	WO 95/06058	03/02/1995	Royal Free Hospital School of Medicine	
	AE	WO 95/10540	04/20/1995	Immunex Corporation	
	AF	EP 0 401 384 B1	12/12/1990	Kinn-Amgen, Inc.	
	AG	WO 96/14328	05/17/1996	Human Genome Sciences, Inc.	
	AH	WO 96/26736	09/06/1996	Ludwig Institute for Cancer Research and Helsinki Univ. Licensing Ltd., Oy	
	AI	WO 96/34095	10/31/1996	Human Genome Sciences, Inc.	
	AJ	WO 96/39515	12/12/1996	Human Genome Sciences, Inc.	
	AK	WO 97/33899	09/18/1997	Human Genome Sciences, Inc.	
	AL	WO 97/34911	09/25/1997	Human Genome Sciences, Inc.	
	AM	WO 98/02543	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.	
	AN	WO 98/06842	02/19/1988	Schering Corporation	
	AO	WO 98/07832	02/26/1998	Ludwig Institute for Cancer Research and Helsinki Univ. Licensing Ltd., Oy	
	AP	WO 98/07880	02/26/1998	Human Genome Sciences, Inc.	
	AQ	WO 98/14565	04/09/1998	Immunex Corporation	
	AR	WO 98/18921	05/07/1998	Human Genome Sciences, Inc.	
	AS	WO 98/30693	07/16/1998	Human Genome Sciences, Inc.	
	AT	WO 98/30694	07/16/1998	Human Genome Sciences, Inc.	
	AU	WO 98/32466	07/30/1998	Polymasec Pharmaceuticals PLC	
	AV	WO 98/41629	09/24/1998	Human Genome Sciences, Inc.	
	AW	WO 98/49305	11/05/1998	Amgen, Inc.	
	AX	WO 98/56892	12/17/1998	Human Genome Sciences, Inc.	
	AY	EP 0 506 477 B1	09/30/1992	Merck & Co., Inc.	
	AZ	WO 00/08139	02/17/2000	Human Genome Sciences, Inc.	
	BA	CA 2,260,754	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.	

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¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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			First Named Inventor	Guo-Liang Yu	
			Art Unit	1646	
			Examiner Name	J. Ulm	
Sheet	2	of	4	Attorney Docket Number	PF267D1

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²	
	BB	Arend et al. "Binding of IL-1 α , IL-1 β , and IL-1 Receptor Antagonist by Soluble IL-1 Receptors and Levels of Soluble IL-1 Receptors in Synovial Fluids," J. Immunol. 153:4766-4774 (1994)		
	BC	Ashkenazi, A. et al., "Protection against endotoxic shock by a tumor necrosis factor receptor immunoadhesin," Proc. Natl. Acad. Sci. USA 88:10535-10539 (1991)		
	BD	Beutler, B. and Cerami, A., "Tumor Necrosis, Cachexia, Shock, and Inflammation: A Common Mediator," Ann. Rev. Biochem. 57:505-518 (1988)		
	BE	Boldin, M P. et al., "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," J. Biol. Chem. 270:7795-7798 (April 1995)		
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	BI	Chinnaiyan, A.M. et al., "FADD/MORT1 Is a Common Mediator of CD95 (Fas/APO-1) and Tumor Necrosis Factor Receptor-induced Apoptosis," J. Biol. Chem. 271:4961-4965 (March 1996)		
	BJ	Corti, A. et al., "Identification of an Epitope of Tumor Necrosis Factor (TNF)-Receptor Type 1 (p55) Recognized by a TNF- α -Antagonist Monoclonal Antibody," Lymphokine Cytokine Res. 13:183-190 (June 1994)		
	BK	Delgado, C. et al., "The Uses and Properties of PEG-Linked Proteins," Clin. Rev Ther. Drug Carrier Systems 9:249-304 (1992)		
	BL	Deng, B., et al., "An Agonist Murine Monoclonal Antibody to the Human c-Mpl Receptor Stimulates Megakaryocytopoiesis," Blood 92:1981-1988 (September 1998)		
	BM	Fiers, W., "Tumor necrosis factor," FEBS Lett. 285:199-212 (1991)		
	BN	Francis, G.E. et al., "PEGylation of cytokines and other therapeutic proteins and peptides: the importance of biological optimisation of coupling techniques," Intl. J. Hematol. 68:1-18 (July 1998)		

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				First Named Inventor	Guo-Liang Yu
				Art Unit	1646
				Examiner Name	J. Ulm
Sheet	3	of	4	Attorney Docket Number	PF267D1

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	BO	Fu, M. L. X. et al., "Characterization of anti-peptide antibodies directed against an extracellular immunogenic epitope on the human α_1 -adrenergic receptor," <i>Clin. Exp. Immunol.</i> 97:146-151 (July 1994)	
	BP	Goeddel, D. V. et al., "Tumor Necrosis Factors. Gene Structure and Biological Activities," <i>Cold Spring Harbor Symp. Quant. Biol.</i> LI:597-609 (1986)	
	BQ	Hahne, M., et al., "APRIL, a New Ligand of the Tumor Necrosis Factor Family, Stimulates Tumor Cell Growth," <i>J. Exp. Med.</i> 188:1185-1190 (September 1998)	
	BR	Hsu, H. et al., "The TNF Receptor 1-Associated Protein TRADD Signals Cell Death and NF- κ B Activation," <i>Cell</i> 81:495-504 (May 1995)	
	BS	Hsu, H. et al., "TRADD-TRAF2 and TRADD-FADD Interactions Define Two Distinct TNF Receptor 1 Signal Transduction Pathways," <i>Cell</i> 84:299-308 (January 1996)	
	BT	Hsu, H. et al., "TNF-Dependent Recruitment of the Protein Kinase RIP to the TNF Receptor-1 Signaling Complex," <i>Immunity</i> 4:387-396 (April 1996)	
	BU	Hughes, D. P. M. and Cnspe, I. N., "A Naturally Occurring Soluble Isoform of Murine Fas Generated by Alternative Splicing," <i>J. Exp. Med.</i> 182:1395-1401 (November 1995)	
	BV	Kischkel, F. C. et al., "Cytotoxicity-dependent APO-1 (Fas/CD95)-associated proteins form a death-inducing signaling complex (DISC) with the receptor," <i>EMBO</i> 14:5579-5588 (November 1995)	
	BW	Malik, F., et al., "Polyethylene Glycol (PEG)-modified Granulocyte-Macrophage Colony-stimulating Factor (GM-CSF) with Conserved Biological Activity," <i>Exp. Hematol.</i> 20:1028-1035 (1992)	
	BX	Morpurgo, M., et al., "Covalent Modification of Mushroom Tyrosinase with Different Amphiphilic Polymers for Pharmaceutical and Biocatalysis Applications," <i>App. Biochem. Biotech.</i> 56:59-72 (January 1996)	
	BY	Old, L. J., "Tumor Necrosis Factor," <i>Scientific American</i> 258:59-75 (1988)	
	BZ	Rothe, M. et al., "TRAF2-Mediated Activation of NF- κ B by TNF Receptor 2 and CD40," <i>Science</i> 269:1424-1427 (September 1995)	
	CA	Stanger, B. Z. et al., "RIP: A Novel Protein Containing a Death Domain That Interacts with Fas/APO-1 (CD95) in Yeast and Causes Cell Death," <i>Cell</i> 81:513-23 (May 1995)	

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				Filing Date	June 16, 1999
				First Named Inventor	Guo-Liang Yu
				Art Unit	1646
				Examiner Name	J. Uim
Sheet	4	of	4	Attorney Document Number	PF267D1

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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	CB	Tartaglia, L. A., et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor," <i>Cell</i> 73:213-216 (1993)	
	CC	Tewari, M. and Dixit, V M., "Fas- and Tumor Necrosis Factor-induced Apoptosis is Inhibited by the Poxvirus <i>crmA</i> Gene Product," <i>J. Biol. Chem.</i> 270:3255-3260 (February 1995)	
	CD	Vorobjev, P. E., et al., "Oligonucleotide Conjugated to Linear and Branched High Molecular Weight Polyethylene Glycol as Substrates for RNase H.," <i>Nucleosides & Nucleotides</i> 18:2745-2750 (November-December 1999)	
	CE	Yoon, S T. et al., "Both High and Low Avidity Antibodies to the T Cell Receptor Can Have Agonist or Antagonist Activity," <i>Immunity</i> 1:563-569 (October 1994)	

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			Examiner Name	J. Uim	
			Attorney Docket Number	PF267D1	
Sheet	1	of	4		

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AE	AA	5,349,052	09/20/1994	Deigado et al.	
AE	AB	5,478,925	12/26/1995	Wallach et al.	
AE	AC	5,643,575	07/01/1997	Martinez et al.	

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AE	AD	WO 95/06058	03/02/1995	Royal Free Hospital School of Medicine	
AE	AE	WO 95/10540	04/20/1995	Immunex Corporation	
AE	AF	EP 0 401 384 B1	12/12/1990	Kirin-Amgen, Inc.	
AE	AG	WO 96/14328	05/17/1996	Human Genome Sciences, Inc.	
AE	AH	WO 96/26736	09/06/1996	Ludwig Institute for Cancer Research and Helsinki Univ. Licensing Ltd., Oy	
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AE	AJ	WO 96/39515	12/12/1996	Human Genome Sciences, Inc.	
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AE	AL	WO 97/34911	09/25/1997	Human Genome Sciences, Inc.	
AE	AM	WO 98/02543	01/22/1998	Chugai Research Institute for Molecular Medicine, Inc.	
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AE	AS	WO 98/30693	07/16/1998	Human Genome Sciences, Inc.	
AE	AT	WO 98/30694	07/16/1998	Human Genome Sciences, Inc.	
AE	AU	WO 98/32466	07/30/1998	Polymasec Pharmaceuticals PLC	
AE	AV	WO 98/41629	09/24/1998	Human Genome Sciences, Inc.	
AE	AW	WO 98/49305	11/05/1998	Amgen, Inc.	
AE	AX	WO 98/56892	12/17/1998	Human Genome Sciences, Inc.	
AE	AY	EP 0 506 477 B1	09/30/1992	Merck & Co., Inc.	
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Examiner Signature	<i>John Uim</i>	Date Considered	2-10-03
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PTO/SB/08A (10.01)

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		First Named Inventor	Guo-Liang Y
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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✓	BB	Arend, W.P. et al., "Binding of IL-1α, IL-1β, and IL-1 Receptor Antagonist by Soluble IL-1 Receptors and Levels of Soluble IL-1 Receptors in Synovial Fluids" <i>J. Immunol</i> 153:4766-4774 (1994)	
✓	BC	Ashkenazi, A. et al., "Protection against endotoxic shock by a tumor necrosis factor receptor immunoadhesin," <i>Proc Natl Acad Sci USA</i> 88:10535-10539 (1991)	
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✓	BH	Chinnaiyan, A.M. et al., "FADD, a Novel Death Domain-Containing Protein, Interacts with the Death Domain of Fas and Initiates Apoptosis," <i>Cell</i> 81:505-512 (May 1995)	
✓	BI	Chinnaiyan, A.M. et al., "FADD/MORT1 is a Common Mediator of CD95 (Fas/APO-1) and Tumor Necrosis Factor Receptor-induced Apoptosis," <i>J Biol Chem</i> 271:4961-4965 (March 1996)	
✓	BJ	Corti, A. et al., "Identification of an Epitope of Tumor Necrosis Factor (TNF)-Receptor Type 1 (p55) Recognized by a TNF-α-Antagonist Monoclonal Antibody," <i>Lymphokine Cytokine Res</i> 13:183-190 (June 1994)	
✓	BK	Delgado, C. et al., "The Uses and Properties of PEG-Linked Proteins," <i>Crit Rev. Ther Drug Carrier Systems</i> 9:249-304 (1992)	
✓	BL	Deng, B. et al., "An Agonist Murine Monoclonal Antibody to the Human c-Mpl Receptor Stimulates Megakaryocytopoiesis," <i>Blood</i> 92:1981-1988 (September 1998)	
✓	BM	Fiers, W. "Tumor necrosis factor," <i>FEBS Lett</i> 285:199-212 (1991)	
✓	BN	Francis, G.E. et al., "PEGylation of cytokines and other therapeutic proteins and peptides: the importance of biological optimization of coupling techniques," <i>Intl J Hematol</i> 68:1-18 (July 1998)	

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Examiner Signature	<i>John Uim</i>	Date Considered	12-10-03
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		Examiner Name	J. Uim
Sheet 3 of 4	Attorney Docket Number	PF267D1	

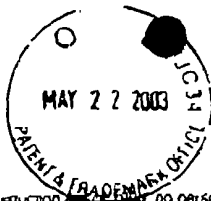
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Examiner Initials	Cite No	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date; page(s); volume/issue number(s); publisher; city and/or country where published	T ²
✓	BO	Fu, M L X et al., "Characterization of anti-peptide antibodies directed against an extracellular immunogenic epitope on the human α_1 -adrenergic receptor," <i>Clin Exp Immunol</i> 97 146-151 (July 1994)	
✓	BP	Goeddel, D V et al., "Tumor Necrosis Factors: Gene Structure and Biological Activities," <i>Cold Spring Harbor Symp Quant Biol</i> 51:597-609 (1986)	
✓	BQ	Hahne, M. et al., "APRIL, a New Ligand of the Tumor Necrosis Factor Family, Stimulates Tumor Cell Growth," <i>J. Exp. Med.</i> 188:1185-1190 (September 1998)	
✓	BR	Hsu, H. et al., "The TNF Receptor 1-Associated Protein TRADD Signals Cell Death and NF- κ B Activation," <i>Cell</i> 81:495-504 (May 1995)	
✓	BS	Hsu, H. et al., "TRADD-TRAF2 and TRADD-FADD Interactions Define Two Distinct TNF Receptor 1 Signal Transduction Pathways," <i>Cell</i> 84:299-308 (January 1996)	
✓	BT	Hsu, H. et al., "TNF-Dependent Recruitment of the Protein Kinase RIP to the TNF Receptor-1 Signaling Complex," <i>Immunity</i> 4:387-396 (April 1996)	
✓	BU	Hughes, D P.M. and Crispe, I N "A Naturally Occurring Soluble Isoform of Murine Fas Generated by Alternative Splicing," <i>J Exp Med</i> 182:1395-1401 (November 1995)	
✓	BV	Kischkel, F.C. et al., "Cytotoxicity-dependent APO-1 (Fas/CD95)-associated proteins form a death-inducing signaling complex (DISC) with the receptor," <i>EMBO J.</i> 14:5579-5588 (November 1995)	
✓	BW	Malik, F. et al., "Polyethylene Glycol (PEG)-modified Granulocyte-Macrophage Colony-stimulating Factor (GM-CSF) with Conserved Biological Activity," <i>Exp Hematol</i> 20:1028-1035 (1992)	
✓	BX	Morpurgo, M. et al., "Covalent Modification of Mushroom Tyrosinase with Different Amphiphilic Polymers for Pharmaceutical and Biocatalysis Applications," <i>App Biochem Biotech.</i> 56:59-72 (January 1996)	
✓	BY	Old, L J "Tumor Necrosis Factor," <i>Scientific American</i> 258:59-75 (1988)	
✓	BZ	Rothe, M. et al. "TRAF2-Mediated Activation of NF- κ B by TNF Receptor 2 and CD40," <i>Science</i> 269:1424-1427 (September 1995)	
✓	CA	Stanger, B Z et al. "RIP: A Novel Protein Containing a Death Domain That Interacts with Fas/APO-1 (CD95) in Yeast and Causes Cell Death," <i>Cell</i> 81:513-23 (May 1995)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner Signature	<i>John Y. Lee</i>	Date Considered	12-10-03
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PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/333,966
		Filing Date	June 16, 1999
		First Named Inventor	Guo-Liang Yu
		Art Unit	1646
		Examiner Name	J. Uim
Sheet	4	of	4
		Attorney Docket Number	PF267D1

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2	CB	Tartaglia, L. A. et al., "Tumor Necrosis Factor's Cytotoxic Activity is Signaled by the p55 TNF Receptor," <i>Cell</i> 73:213-216 (1993)	
2	CC	Tewari, M. and Dixit, V.M., "Fas- and Tumor Necrosis Factor-induced Apoptosis is Inhibited by the Poxvirus crmA Gene Product," <i>J Biol Chem.</i> 270:3255-3260 (February 1995)	
2	CD	Vorobjev, P. E. et al., "Oligonucleotide Conjugated to Linear and Branched High Molecular Weight Polyethylene Glycol as Substrates for RNase H," <i>Nucleosides & Nucleotides</i> 18:2745-2750 (November-December 1999)	
2	CE	Yoon, S.T. et al., "Both High and Low Avidity Antibodies to the T Cell Receptor Can Have Agonist or Antagonist Activity," <i>Immunity</i> 1:563-569 (October 1994)	

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Examiner Signature	<i>J. Uim</i>	Date Considered	12-10-03
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